

**WE CLAIM:**

- 1 6. The method of claim 5 wherein the sow diet is supplemented with L-carnitine and  
2 chromium picolinate or chromium nicotinate.

1 7. A gestating sow diet supplemented with amounts of L-carnitine or its salts and a  
2 trivalent chromium salt which are effective to enhance the reproductive performance of the  
3 gestating sow.

1 8. The gestating sow diet of claim 7 wherein the sow diet is supplemented with from 20  
2 to 1500 ppm of L-carnitine and 20 to 1000 ppb of a trivalent chromium salt.

1 9. The gestating sow diet of claim 7 wherein the diet is supplemented with L-carnitine and  
2 chromium picolinate or chromium nicotinate.

1 10. A lactating sow diet supplemented with amounts of L-carnitine or a salt thereof and a  
2 trivalent chromium salt which are effective to enhance the reproductive performance of the  
3 lactating sow in the second parity.

1 11. A lactating sow diet of claim 10 wherein the sow diet is supplemented with from 20  
2 to 1500 ppm of L-carnitine and 30 to 1500 ppb of a trivalent chromium salt.

1 12. A lactating sow diet of claim 11 wherein the feed is supplemented with L-carnitine and  
2 chromium picolinate or chromium nicotinate.

1 13. A feed supplement comprising:  
2 (a) from 40 to 60 parts of L-carnitine or a salt thereof;  
3 (b) from .5 to 4 parts of a trivalent chromium salt;  
4 (c) from 25 to 50 parts of a carrier; and  
5 (d) from 10-25 parts of water.

1 14. The feed supplement of claim 13 wherein component (a) is L-carnitine and component  
2 (b) is chromium (III) picolinate or chromium nicotinate.

1 15. The feed supplement of claim 13 wherein component (c) is silica.

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